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(54) Title: NOVEL BACILLUS 029CEL CELLULASE

**The translated 029cel protein composed of 581 amino acids**

MNFSLPPIRFF	GIGPTAGFFL	LLMGSSALVA	STHTDKIRID	QFGYPADATK	50
VAVIADPQIG	WNSAESYSPG	ATLEVRRVND	GVVVFSGSPV	PWNGGAIHIQ	100
SGDRVWVDF	TVVAEPGHYR	IHDPANNTHS	DSFAIGADVY	DVVLREAVRM	150
FFYQSRGFAK	EVPIAHANWA	DAASHPQDVA	SRPIWDMGNA	SLERDLSGGW	200
FDAGDFNKYS	EWTRGVILEL	LLAYQGRPDV	FTDDFGIPES	GNGVPDLLDE	250
VKWGMDWLLR	MQEPGAILG	KVSVTGHQSA	SPPSTDTHPR	YYGVPVSTEAT	300
AMAAAFAALG	ATVFESVGMS	DYAVTLESAA	IAAWNWTMVH	PHVPFDNTGF	350
ASVSPSRNAH	DTLANRVMAA	AMLFERTGGA	VYRDFFDVRY	LDMEFPVQWY	400
FFPFQGELQK	ALAHYTTLP	ATPSVSADIR	NRMAASINGG	EFLGAWNNQT	450
DAYRAYLKQD	DYTWGSNKT	SQAGFFFEV	RRLGLNPADA	AAHRDAAMGY	500
LHYLHGVNPM	GMVYLSNMYA	SGADRAANEI	YHHWFRDGR	GTMPSLHSTV	550
PLLVFRRAGP	NAQIQRKHS	DRPRTAKSL	P		581

(57) Abstract: The present invention provides a novel cellulase nucleic acid sequence, designated 029cel, and the corresponding 029cel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding 029cel, recombinant 029cel proteins and methods for producing the same.

WO 2004/097001 A2